

# AFD300 FIRE-RATED ACOUSTIC DOORSET

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## DESCRIPTION

The AFD300 is a tested Acoustic doorset which also complies with the Fire Resistance requirements of NZS 4520, as referenced in the New Zealand Building Code (C/AS1 Appendix C 6.1.1).

The AFD300 is a hinged single or pair leaf flush panel door leaf hung in a timber frame. It includes frame-mounted perimeter seals and an automatic bottom seal.

## ACOUSTIC RATINGS

As a single door:

R<sub>w</sub> 40 (ISO 717-1)

STC 40 (ASTM E413)

As a pair doorset:

R<sub>w</sub> 38 (ISO 717-1)

STC 38 (ASTM E413)

## ACOUSTIC TESTING

Complete doorsets are tested to ISO 140-3 in a purpose-built facility that meets the requirements of ISO 140-1.

## FIRE RESISTANCE

The AFD300 has up to 60 minutes fire resistance. It can be specified with a Fire Resistance Rating (FRR) of:

-/30/30 sm, -/60/30 sm or -/60/60 sm.

(Stability/Integrity/Insulation Smoke Control)

When fitted with a vision panel of area greater than 0.065m<sup>2</sup> the Fire Resistance Rating is:

FRR -/30/30 Sm or -/60/30 sm

## FIRE TESTING

AFD300 Acoustic Fire Doors have been successfully fire tested to AS 1530.4-2005 at a fire laboratory that is accredited to the ISO/IEC 17025 standard by IANZ. The fire laboratory is a Registered Testing Authority under the BCA (Australia).

## SMOKE CONTROL

The AFD300 is a smoke control door as defined in the NZ Building Code Acceptable Solutions (C/AS1 Appendix C 6.1.2).

## LEAF SPECIFICATIONS

Leaf Weight: 26kg/m<sup>2</sup>

Leaf Thickness: 47mm

### Maximum single leaf size:

Timber stud wall: 2400 x 1200mm

Masonry /concrete: 2400 x 1200mm

### Maximum pair leaf size:

Timber stud wall: 2100 x 910/910

Masonry /concrete: 2100 x 910/910

## DOOR FINISH

Standard facings are paint quality MDF, or timber veneered.

## HINGING

Steel butt hinges are standard.

## PAIR MEETING STILES

The tested meeting stile for fire resistance and sound transmission loss consists of aluminium J-section meeting stiles with integral acoustic seals. Meeting stiles are illustrated on the Meeting Stile Details datasheet.

## DOOR LEAF EDGES

Paint-quality doors have unclashed edges.

Timber veneer faced doors are clashed on the vertical edges with solid timber.

## SEALS

The perimeter frame seals are self-adhesive seals mounted in the frame rebate, so are hidden when the door is closed.

The bottom seal is an automatic door seal that lifts clear of the floor when the door is opened. The seal is fully mortised in a groove in the bottom edge of the door.

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The bottom seal must close onto a smooth, flat and level surface in order to seal as intended.

## FRAME

The AFD300 doorset is supplied pre-hung in a timber frame. Timber must be hardwood of density 650 kg/m<sup>3</sup> or greater.

## FRAME INSTALLATION AND PROFILES

Refer separate datasheets for Timber Frame Installation.

Note that all wedging gaps between door frames and wall studs must be packed with mineral or ceramic wool fire insulation.

Sealant must be applied where indicated.

## WALL CONNECTION

Timber stud wall (GBT60)

Masonry

## VISION PANEL

The AFD300 can be supplied with one or two vision panels of maximum height 660mm, maximum width 400mm and area 0.16 m<sup>2</sup> per vision panel.

Standard glazing beads are aluminium angles, in natural anodized finish. Timber beads are also available, in hardwood of density 650 kg/m<sup>3</sup> or greater.

The doorset has not been tested for acoustic performance with a vision panel.

## HARDWARE

A range of common commercial hardware has been fire tested with the AFD300 doorset.

Hardware that complies with NZS 4520 when installed on the AFD300 is listed on the separate datasheet "AFD Series Hardware List".

Hardware can be fixed to the door using standard fasteners. The door leaf does not have a solid core so fixing is into the door facings (11mm thick).

Pull handles and door holders must be through-fastened.

## LABELLING

Fire-rated doorsets are labelled in accordance with the NZ Building Code requirements for fire doors. An additional metal label identifies the doorset as a Pacific Acoustic doorset.

## INSTALLATION

Doorsets must be installed carefully with particular attention to the sealing of gaps, including around the frame to wall junction.

Installation instructions are provided with the door.

## ORDERING PACIFIC AFD300 DOORSETS

A Doorset Order Form is provided to clients for confirming details of all orders.